

IN THE CLAIMS

Please amend claims 1, 3 thru 7, 10, 11 and 15 thru 24 as follows:

1 1. (Currently Amended) An internet interface service system providing high-
2 speed connection services to mobile terminals carried by respective users in public
3 places, said system comprising:

4 an internet network for providing the high-speed connection services;

5 plural interface units, one for each of said mobile terminals, for connecting the
6 mobile terminals of said respective users to the internet network so as to provide the
7 respective users with internet services; and

8 a central management server connected to the internet network and responsive to
9 the input into the interface units of settlement information relating to the mobile
10 terminals for carrying out usage authentications of the mobile terminals by performing
11 data communications with an external settlement server which carries out settlements
12 upon reception of the settlement information from the interface units, said central
13 management server allocating dynamic IP addresses enabling the mobile terminals to
14 carry out internet searches, and said central management server being responsive to
15 [[the]] reception, by a given mobile terminals receiving terminal from [[the]] a
16 corresponding interface [[units]] unit, of a signal terminating [[the]] a corresponding
17 internet ~~connections~~ connection for releasing [[the]] a corresponding dynamic IP
18 ~~addresses~~ address allocated to the given mobile terminals terminal and for transmitting

19 charge information with respect to ~~[[the]]~~ a corresponding internet connection ~~services~~
20 service of the given mobile ~~terminals~~ terminal.

1 2. (Original) The internet interface service system as claimed in claim 1,
2 wherein the mobile terminals are at least one of notebook computers, palm top
3 computers, network computers and PDAs.

1 3. (Currently Amended) The internet interface service system as claimed in
2 claim 1, wherein each ~~of the~~ interface ~~[[units]]~~ unit comprises:

3 a first communication unit connected to ~~[[the]]~~ a corresponding mobile ~~[[units]]~~
4 unit;

5 a second communication unit connected to the internet network for performing
6 communications with the central management server via the internet network, for
7 transmitting a mobile terminal-requested signal to the internet network, and for
8 enabling said each ~~of the~~ interface ~~[[units]]~~ unit to receive a signal comprising
9 information searched in the internet network;

10 a storage unit for storing at least one of communication port activation data for
11 ~~[[the]]~~ said each interface ~~[[units]]~~ unit, settlement information, encryption data, and
12 deciphering data, and for storing operating programs for carrying out input and output
13 with respect to usage information of ~~[[the]]~~ a corresponding mobile ~~terminals~~ terminal;

14 a settlement unit responsive to user input of settlement information into said

15 corresponding mobile ~~terminals~~ terminal in order to settle charges for the use of [[the]]
16 said each interface [[units]] unit of the corresponding mobile ~~terminals~~ terminal for
17 reading and transmitting the settlement information from the corresponding mobile
18 ~~terminals of the users~~ terminal;

19 an output unit responsive to connection of the corresponding mobile ~~terminals~~
20 terminal to [[the]] said each interface [[units]] unit, input of the settlement information
21 by the user, approval of the settlement information by the central management server,
22 conduct of work through the internet network, and termination of the conducted work,
23 for outputting a statement of usage charges with respect to the usage times of the
24 corresponding mobile ~~terminals~~ terminal;

25 [[a]] liquid crystal display (LCD) means for displaying the statement outputted
26 by the output unit for visual confirmation of the [[users]] user, and for performing a
27 function as a user interface for the [[users]] user; and

28 a control unit responsive to connection of the corresponding mobile ~~terminals~~
29 terminal to the first communication unit for activating a communication ~~channels~~
30 channel for the corresponding mobile ~~terminals~~ terminal, for transmitting to the external
31 settlement server the settlement information of the [[users]] user, [[and]] responsive to
32 an approval signal for receiving the dynamic IP addresses from the central management
33 server for allocation to the corresponding mobile ~~terminals~~ terminal, for storing in the
34 storage unit charge information with respect to the connections of the corresponding
35 mobile ~~terminals~~ terminal, for outputting the charge information from the storage unit

36 to the output unit and the liquid crystal display means while, at the same time,
37 transmitting the charge information to the central management server and the settlement
38 server through the second communication unit when the connections of said ~~each of the~~
39 corresponding mobile ~~terminals~~ terminal and ~~[[the]]~~ said each internet interface
40 ~~[[units]]~~ unit are terminated, and for transmitting to the central management server a
41 signal releasing the allocated dynamic IP addresses.

1 4. (Currently Amended) The internet interface service system as claimed in
2 claim 3, further comprising a local area network (LAN) cable for connection between
3 the first communication unit and the corresponding mobile ~~terminals~~ terminal.

1 5. (Currently Amended) The internet interface service system as claimed in
2 claim 4, wherein the LAN cable is connected to a LAN card mounted in the
3 corresponding mobile ~~terminals~~ terminal.

1 6. (Currently Amended) The internet interface service system as claimed in
2 claim 3, wherein the storage unit stores driver information for at least one LAN
3 ~~[[cards]]~~ card provided in ~~[[the]]~~ said each interface ~~[[units]]~~ unit.

1 7. (Currently Amended) The internet interface service system as claimed in
2 claim 3, wherein the storage unit stores programs for performing charges for the

3 corresponding mobile terminals terminal.

1 8. (Original) The internet interface service system as claimed in claim 3,
2 wherein the settlement unit is a card reader for reading a credit card.

1 9. (Original) The internet interface service system as claimed in claim 3,
2 wherein the second communication unit carries out wireless communications.

1 10. (Currently Amended) An internet interface service method providing high-
2 speed connection services to mobile terminals carried by respective users in public
3 places, comprising the steps of:

4 when a mobile terminal of a user and an internet interface unit are connected by
5 any of a local area network (LAN) cable ~~equipped~~ provided in a first communication
6 unit and a LAN cable ~~equipped with~~ connected to a LAN card, establishing a
7 communication channel with the mobile terminal by use of a control unit so as to
8 activate ~~the first~~ a communication unit in the mobile terminal, the control unit being
9 included in the internet interface unit;

10 outputting from the control unit a message requesting user entry of settlement
11 information in order to settle charges for [[the]] use of the internet interface unit by the
12 mobile terminal of the user after the establishment of the communication channel, and,
13 when the user enters the settlement information, reading the settlement information,

transmitting the settlement information to a settlement server through a central management server, and receiving a settlement approval from the settlement server;

after receiving the settlement approval, receiving a dynamic IP address from the central management server, allocating the received dynamic IP address to the mobile terminal, and performing data communications by means of the data terminal ~~according to predetermined work~~ through the internet interface unit and an internet network connected to the internet interface unit; and

when a predetermined connection termination signal is inputted to the internet interface unit by a connection termination menu provided in one of the mobile terminal and the internet interface unit, terminating the communication channel of the mobile terminal by means of the control unit, outputting charge information stored in the storage unit to an output unit and a ~~liquid crystal display (LCD)~~ unit while, at the same time, transmitting the charge information by means of the control unit to the central management server and the settlement server through a second communication unit, thereby performing a charging function.

11. (Currently Amended) An interface service system for use with a network providing high-speed connection service to mobile terminals carried by users in public places, said system comprising:

plural interface units, one for each mobile terminal, for connecting said each mobile ~~terminals of users~~ terminal to the network; and

6 a central management server for controlling use of the interface units by the
7 mobile terminals;

8 wherein said central management server is responsive to entry of settlement
9 information by users via the mobile terminals for carrying out usage authentications of
10 the mobile terminals, and for allocating addresses to the mobile terminals in order for
11 the mobile terminals to carry out network searches;

12 wherein said central management server is responsive to ~~[[the]]~~ a given mobile
13 ~~terminals~~ terminal receiving, from ~~[[the]]~~ a corresponding interface ~~[[units]]~~ unit, a
14 signal relating to termination of connections~~[[,]]~~ for releasing the addresses allocated to
15 the given mobile ~~terminals~~ terminal; and

16 wherein said central management server transmits charge information with
17 respect to the network connection services of the mobile terminals.

1 12. (Original) The interface service system as claimed in claim 11, wherein said
2 central management server carries out the usage authentications by communicating with
3 an external settlement server.

1 13. (Original) The interface service system as claimed in claim 11, wherein said
2 central management server transmits the charge information to an external settlement
3 server.

1 14. (Original) The interface service system as claimed in claim 11, wherein said
2 central management server remotely manages the plural interface units.

1 15. (Currently Amended) The interface service system as claimed in claim 11,
2 wherein each ~~of the~~ interface ~~[[units]]~~ unit comprises:

3 a first communication unit connected to ~~[[the]]~~ a corresponding mobile ~~[[units]]~~
4 unit; and

5 a second communication unit connected to the network for performing
6 communications with the central management server via the network, for transmitting a
7 mobile terminal-requested signal to the network, and for enabling said each ~~of data for~~
8 the interface ~~[[units]]~~ unit to receive a signal comprising information searched in the
9 network.

1 16. (Currently Amended) The interface service system as claimed in claim 11,
2 wherein each ~~of the~~ interface ~~[[units]]~~ unit comprises:

3 a storage unit for storing at least one of communication port activation data for
4 ~~[[the]]~~ said each interface ~~[[units]]~~ unit, settlement information, encryption data and
5 deciphering data, and for storing operating programs for carrying out input and output
6 with respect to usage information of the corresponding mobile ~~terminals~~ terminal.

1 17. (Currently Amended) The interface service system as claimed in claim 11,

2 wherein each ~~of the~~ interface ~~[[units]]~~ unit comprises:

3 a settlement unit responsive to user input of settlement information into said
4 corresponding mobile ~~terminals~~ terminal in order to settle charges for the use of ~~[[the]]~~
5 said each interface ~~[[units]]~~ unit of the corresponding mobile ~~terminals~~ terminal for
6 reading and transmitting the settlement information from the corresponding mobile
7 ~~terminals of the users~~ terminal.

1 18. (Currently Amended) The interface service system as claimed in claim 11,
2 wherein each ~~of the~~ interface ~~[[units]]~~ unit comprises:

3 an output unit~~[[,]]~~ responsive to connection of the corresponding mobile
4 ~~terminals~~ terminal to ~~[[the]]~~ said each interface ~~[[units]]~~ unit, input of the settlement
5 information by the user, approval of the settlement information by the central
6 management server, conduct of work through the network, and termination of the
7 conducted work~~[[,]]~~ for outputting a statement of usage charges with respect to the
8 usage times of the corresponding mobile ~~terminals~~ terminal.

1 19. (Currently Amended) The interface service system as claimed in claim 18,
2 wherein each ~~of the~~ interface ~~[[units]]~~ unit comprises:

3 ~~[[a]]~~ liquid crystal display (LCD) means for displaying the statement outputted
4 by the output unit for visual confirmation of the ~~[[users]]~~ user, and for performing a
5 function as a user interface for the ~~[[users]]~~ user.

1 20. (Currently Amended) The interface service system as claimed in claim 11,
2 wherein each of the interface [[units]] units comprises:

3 a control unit responsive to connection of the corresponding mobile ~~terminals~~
4 terminal to the first communication unit for activating communication channels for the
5 corresponding mobile ~~terminals~~ terminal.

1 21. (Currently Amended) The interface service system as claimed in claim 11,
2 wherein each of the interface [[units]] unit comprises:

3 a control unit for transmitting, to an external settlement server, the settlement
4 information input by the [[users]] user.

1 22. (Currently Amended) The interface service system as claimed in claim 11,
2 wherein each of the interface [[units]] unit comprises:

3 a control unit responsive to an approval signal for receiving the addresses for
4 allocation to the corresponding mobile ~~terminals~~ terminal.

1 23. (Currently Amended) The interface service system as claimed in claim 11,
2 wherein each of the interface [[units]] unit comprises:

3 a control unit which receives the addresses for allocation to the corresponding
4 mobile ~~terminals~~ terminal, stores in a storage unit charge information with respect to

5 connections of the corresponding mobile ~~terminals~~ terminal, outputs the charge
6 information from the storage unit to an output unit and a liquid crystal display while, at
7 the same time, transmitting the charge information to the central management server
8 and a settlement server through a communication unit when the ~~connections~~ connection
9 of ~~[[said]]~~ the corresponding mobile ~~terminals~~ terminal to ~~[[the]]~~ said each interface
10 ~~units are~~ unit is terminated.

1 24. (Currently Amended) The interface service system as claimed in claim 11,
2 wherein each ~~of the~~ interface ~~[[units]]~~ unit comprises:

3 a control unit which transmits, to the central management server, a signal
4 releasing the allocated addresses.